This document provides additional assistance with wiring your Extron IP Link enabled product to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific Extron IP Link enabled product or the controlled device manufacturer supplied documentation.

Device Specifications:

Device Type:	Video Projector
Manufacturer:	Sharp
Firmware Version:	N/A
Model(s):	XG-C55X, XG-C60X

Version History:

Driver Version	Date	IP Link Compiler	IP Link Firmware	GVC Version	GC2 Version	Notes
8	9/25/06	1.0.9.3	1.10	1.8	2.2	Beta version. Corrected inability to turn projector off on unidirectional ports.
7	7/31/06	1.0.9.3	1.10	1.8	2.2	Beta version. Added Lamp Usage. Changed some commands names to more generic names.
6	1/10/05	1.0.9.3	1.06	1.5	2.0	Beta version. Added 30 second status query pause after Auto Image command.
5	10/18/04	1.0.9.3	1.04	1.4	N/A	Beta version. Code optimized.

Driver Notes:

The projector requires about 4 seconds to switch inputs. Therefore, it will take about 4 seconds for input status to update on the GlobalViewer® webpage.

During projector warm-up (approx. 30 seconds), no status queries will be sent to the projector and no status will be updated.

Only the 'power on' command will be processed while the projector is in standby.

The driver collects remaining lamp percentage 1 minute after upload and then once every 20 minutes of projector operation there after. This may cause the GlobalViewer webpage to occasionally become out of sync with the projector's internal menu pages. This disagreement will persist for no more than 20 minutes.

Lamp Usage time is estimated from the remaining lamp life percentage based on a 2000 hour expected lamp life.

Due to limited resolution, lamp usage time displays in multiples of 20 hours.

After executing the Auto Image command, status queries will be paused for 30 seconds. All driver commands will be available during that time but status will not be updated in the GlobalViewer® webpage.

Control Commands & States:

Audio Mute	Off	On	
Auto Image	Execute		
Freeze	Off	On	
Input	RGB 1 Video 2	RGB 2	Video 1
Power	Off	On	
Video Mute	Off	On	
Volume	Range 0 - 60		

**IP Link® Device Interface
Communication Sheet**

Status Available:

Audio Mute	Off	On	
Connection Status	Connected	Disconnected	
Device Status	Fan Error	Filter Cover Error	Lamp Burnt-out
	Lamp Life 5% or Less	Lamp Not Lit	Normal
	Status Unavailable	Temp Abnormally High	Temp High
Freeze	Off	On	
Input	RGB 1	RGB 2	Video 1
	Video 2		
Lamp Percentage	Lamp life left in percent.		
Lamp Status	Lamp Error	Off	On
	Retry	Status Unavailable	Waiting
Lamp Usage	Estimated lamp usage time in hours.		
Power	Off	On	
Power Status	Off	On	Status Unavailable
Video Mute	Off	On	
Volume	Range 0 - 60		

IP Link® Device Interface Communication Sheet

Cable and Adapter Requirements:
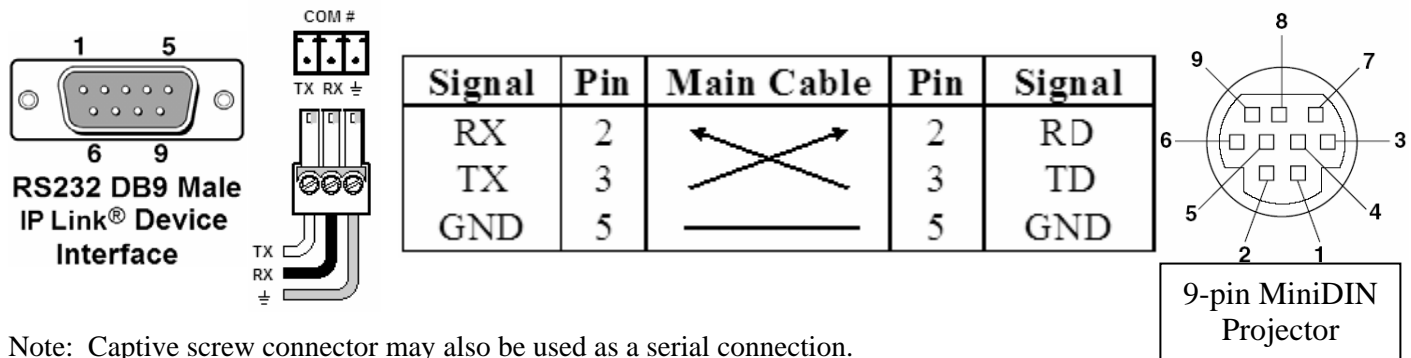F/F Gender Changer (Extron Electronics P/N 10-438-10)
M/F RS-232 Null Modem Serial Cable
DIN-D-SUB RS-232C adapter supplied with the projector (Manufacturer P/N QCNWGA015WJPZ)

If building a custom cable, refer to diagram below.

Notes for the Device:
Pin 8(CS) and pin 7(RS) are short circuited inside the projector.

Serial communication:

Port Type:	RS232	**Parity:**	None
Baud Rate:	9600	**Stop Bits:**	1
Data Bits:	8	**Flow Control:**	None

Pin Assignments Diagram:

Signal	Pin	Main Cable	Pin	Signal
RX	2	✕	2	RD
TX	3		3	TD
GND	5	—	5	GND

Note: Captive screw connector may also be used as a serial connection.

General Notes: